Simple Adapter for SB Live! Player 1024

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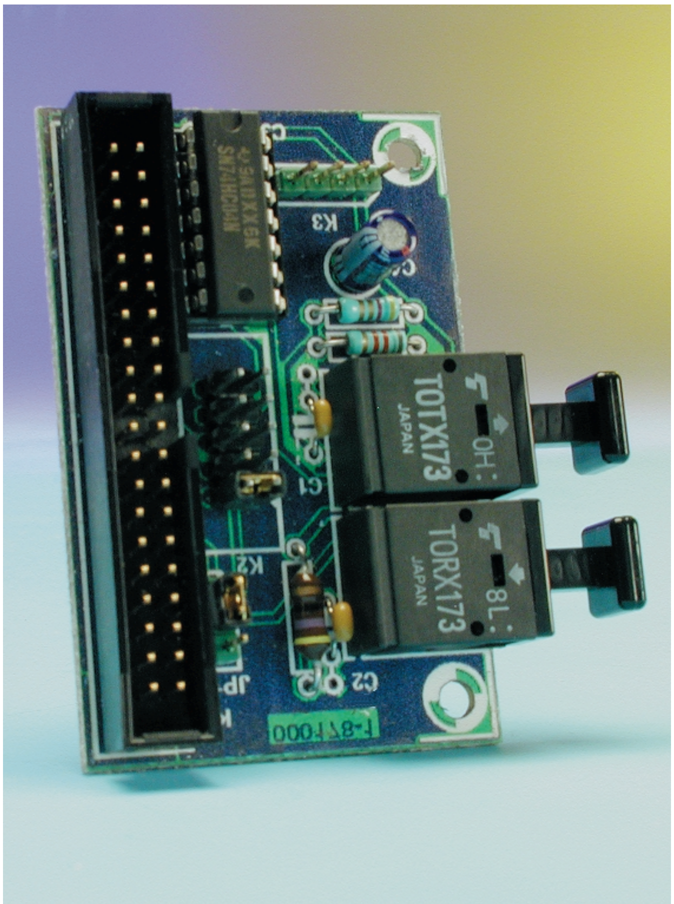
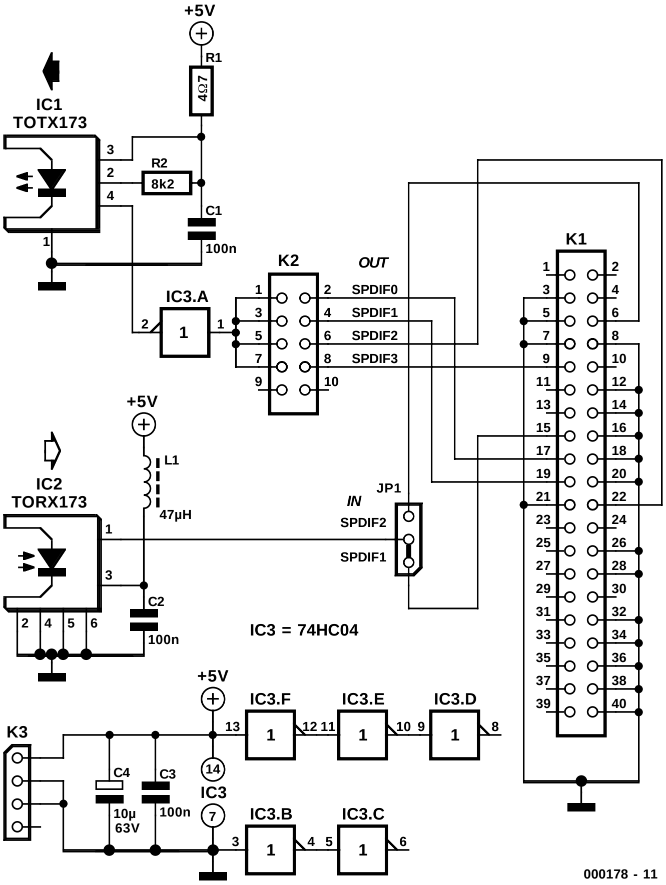
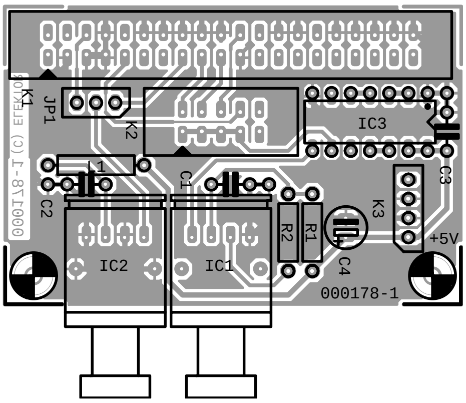


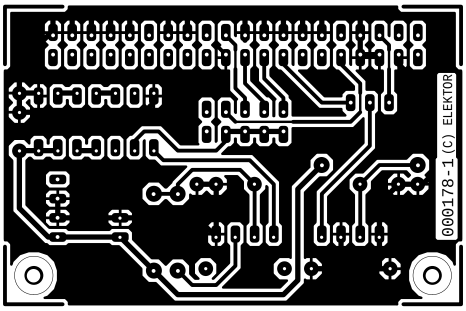


F. Brandt

The 2000 Summer Circuits Collection contained an adapter that made it possible to connect the digital extension (PCB **990079-1**) from December 1999 in the correct manner with the 'Sound Blaster Live! 1024'. This digital extension, fitted with both coaxial as well as optical inputs and outputs, was originally designed for the 12-pin expansion connector (Audio-Extension-connector) on the 'Sound Blaster Live! Player (Value)'. The 1024 model has a 40-pin connector.

This circuit combines the two in a simplified fashion. There is now only one optical input and one optical output. Using jumper K2 you can select one of the four outputs. Similarly, JP1 lets you select one of the two inputs. It appears that Live!Ware 3.0 supports only the first input. For those who are interested, the pin assignment details of the expansion connector can be found in the help menu, or with the aforementioned circuit description ('Adapter for SB Live! Player 1024') in the 2000 Summer Circuits Collec-





tion. To make the connection to a Home-MD recorder a Toslink-to-Toslink-cable is required. To link to a portable MD recorder a Toslink-to-miniplug is necessary.

This simplified adapter has been specifically designed for use with MD recorders, because these are usually fitted with optical inputs and outputs only. The construction of the circuit with the aid of the PCB design shown here should be a piece of cake. The power supply for the circuit is obtained from a small PC power supply connector, which is connected to 4-way pin header K3. Pay careful attention to the polarity when attaching the connector; the red wire is the +5 V connection!

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COMPONENTS LIST

Resistors:

R1 = 4Ω7
R2 = 8kΩ2

Capacitors:

C1,C2,C3 = 100nF ceramic
C4 = 10µF 63V radial

Inductor:

L1 = 47µH

Semiconductors:

IC1 = TOTX173
IC2 = TORX173
IC3 = 74HC04

Miscellaneous:

JP1 = 3-way pinheader with jumper
K1 = 40-way boxheader
K2 = 10-way double row pinheader with jumper
K3 = 4-way pinheader